

MATERIAL SAFETY DATA SHEET

Emergency Phone: Chemtrec 800-424-9300

Effective Date: March 23, 2011

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ArmorTech® SONNET™
PRODUCT DESCRIPTION: A systemic liquid fungicide.
EPA Reg. No. 69592-11-86064

COMPANY IDENTIFICATION:

United Turf Alliance, LLC
8014 Cumming Highway
Suite 403-282
Canton, GA 301158

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Chemical Name</u>	<u>Chemical Formula</u>	<u>CAS Number</u>	<u>Composition</u>
QST 713 Strain of <i>Bacillus subtilis</i>	N/A	N/A	N/A	10-15%

3. HAZARD IDENTIFICATION

For chemical emergency assistance (spill, leak, fire, or accident) call ChemTrec at 1-800-424-9300.

HEALTH HAZARDS: Causes moderate eye irritation. Harmful if absorbed through skin or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift or run-off from treated areas.

PHYSICAL OR CHEMICAL HAZARDS: None.

4. FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration.

NOTE TO PHYSICIAN: This product has low oral and dermal toxicity, and is expected to have low inhalation toxicity. Direct contact with eyes may cause temporary irritation. Provide symptomatic and supportive care as necessary.

5. FIRE-FIGHTING MEASURES

Flash point (Closed Cup): N/A

Flammability: Not combustible.

Fire and Explosion Hazards: None.

Suitable Extinguishing Media: Use extinguishing media appropriate for the surrounding fire.

Fire Fighting Equipment: Wear protective gear appropriate for the fire.

Fire Fighting Procedures: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Containers exposed to fire should be kept cool with water spray. Foam and/or dry chemicals are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run off.

Hazardous Combustion Products: None known.

NFPA Hazard Ratings: Health – 1 / Flammability – 1 / Instability - 0

6. ACCIDENTAL RELEASE MEASURES

Avoid generating dust during clean up. Carefully mop or sweep up spill and place in a closed container for disposal. Rinse area with water.

7. HANDLING AND STORAGE

Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Keep out of reach of children. Do not contaminate water, food, or feed by storage or disposal. Store in original container in a secured dry storage area and keep above freezing temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Refer to the product label for additional information regarding application of this product.

PERSONAL PROTECTIVE EQUIPMENT:

Handlers must wear safety goggles or safety glasses with side shields, chemical resistant gloves, long sleeved shirt, pants and shoes plus socks.

Refer to the product label for specific PPE instructions based on the task being performed.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light to medium brown fine, granular powder

Odor: Sweet, earthy

pH: 4.7 – 7.5 (1% aqueous dispersion)

Density: 0.45 g/ml (28 lbs/ft³)

Solubility in Water: Dispersible

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat): > 5,000 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 2,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): > 0.63 mg/L (Limit Test[‡])

EYE IRRITATION: Moderately irritating

SKIN IRRITATION: Slightly irritating

DERMAL SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

ACGIH: Not listed

MUTAGENIC DATA: No evidence of effects during *in vivo* or *in vitro* studies.

REPRODUCTIVE TOXICITY: None.

[‡] 0.63 mg/L was the maximum attainable aerosol concentration for this test due to the physical nature of the product. No deaths or toxic effects were observed in the test animals during the study period.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is not expected to cause any environmental risks. Tests with the technical active ingredient in various aquatic and terrestrial vertebrates and invertebrates showed this product to be non-toxic to all the species tested.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL: Nonrefillable container, do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT

REPORTABLE QUANTITY: N/A

MARINE POLLUTANT: No

15. REGULATORY INFORMATION

FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

CERCLA REPORTABLE QUANTITY –

N/A

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311 Hazard Categories

None

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

TERMS AND CONDITIONS OF USE

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

WARRANTY DISCLAIMER

United Turf Alliance warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent consistent with applicable law, United Turf Alliance MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of United Turf Alliance or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at United Turf Alliance's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

To the extent consistent with applicable law, United Turf Alliance, the manufacturer, or the seller shall not be liable for consequential, special, or indirect damages resulting from the use, handling, application, storage, or disposal of this product or for damages in the nature of penalties, and the buyer and the user waive any right that they may have to such damages.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of United Turf Alliance or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.